

SUBSTITUTE SHEET (RULE 26)

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• 50	-	-	- 20)		0		- 20)
	0	-	•(21		0	•	•(21
+25	-		-25)	• 25	-	-1	
	0	• 1	÷(23		0	-	.(23 -22)
+24	-	-	72.	.24		-	*24
•25	1	•1	•52	•25	-	•	•25
27 +26 +25 +24	1	-1	-26)	+26	-	-	-26)
27	0	-	-27		0	-	.(28 -27
28	0	-	°(28		0	-	*(28
59	-	-	62	29	_	•	62
= 679	rı	н	it	628 =	. 11	11	"

F16. 2

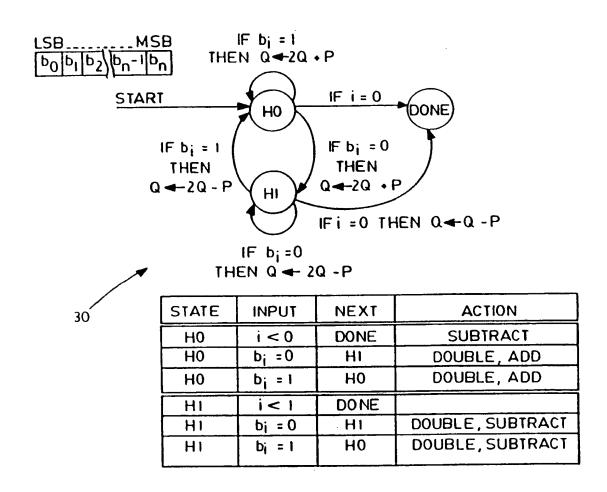


FIG. 3

BEGIN:		
Q := 0	; START FROM MSB ; INITIALIZE ACCUMULATOR ; INITIALIZE STATE	L 1 L 2 L 3
LOOP: Q := Q • Q	; FOR ALL BITS ; DOUBLE ACCUMULATOR	L4
Q : = Q + P GOTO ENDLOOP ELSE	; ELSE ; SUBTRACT BASE POINT	L 5 L 6 L 7 L 8 L 9
i (= i -1	; SET H STATE TO VALUE OF b[i]; PROCESS NEXT BIT; IF BIT EXISTS; CONTINUE AT TOP OF LOOP	L 10 L 11 L 12 L 13
	; IF EXISTING FROM H = 0 STATE ; CORRECT RESULT BY FINAL SUBTRACT	

FIG. 4



BEGIN	:		
	i := N	; START FROM MSB	LLI
	Q : = 0	; INITIALIZE ACCUMULATOR	LL 2
H0 :		; STATE ENTRY POINT	
	$Q := Q \cdot Q$; DOUBLE ACCUMULATOR	LL3
	Q := Q + P	; ADD BASE POINT TO ACCUMULATOR	LL4
	GOTO ENDLOOP	, BRANCH TO END OF LOOP TESTS	LL5
H1:		, STATE ENTRY POINT	
	Q := Q + Q	; DOUBLE ACCUMULATOR	LL6
	0 · - 0 - (-P)	SUBTRACT BASE POINT FROM	LL7
	Q . = Q + (-F)	ACCUMULATOR	
	60TO ENDLOOP	, BRANCH TO END OF LOOP TESTS	LL8
FNDL00P:		; END OF LOOP TESTS	
	IF b[i]=1	; IF CURRENT BIT IS SET	LL9
	GOTO NEXT HO	; FOLLOW HO PATH	LL 10
		; ELSE FALL INTO HI PATH	
NEXT	HI:	; HI PATH	
142/11	i · = i = 1	; PROCESS NEXT BIT	LLII
	IF i>0	; IF BIT EXISTS ; EXECUTE HI STATE	LL12
	GOTO HI	; EXECUTE HI STATE	LL13
	Q:=Q+(-P)	; ELSE CORRECT RESULT AND END	LL 14
	END		LL 15
NEXT	но:	; HO PATH	
110/11	i : =i-1	; HO PATH ; PROCESS NEXT BIT	LL16
	IF i>0	; IF BIT EXISTS	LL17
	GOTO HO	EXECUTE HO STATE	LL 18
	FND	: ELSE END	LL 19

FIG. 5

```
BEGIN:
       i := N
       Q: = 1
H0:
       Q := Q \cdot Q \cdot (Q^2)
       Q := Q \cdot M
       GOTO ENDLOOP
H1:
        Q := Q \cdot Q
        Q := Q/M (Q-M-1)
ENDLOOP:
        IF b[i] = I GOTO ENDLOOP
NEXT HI:
        i = i - 1
        IF i > 0
        GOTO HI
        Q = Q/M
        END
NEXT HO:
        i = i - 1
        IF i>0
        GOTO HO
        END
```

FIG. 6

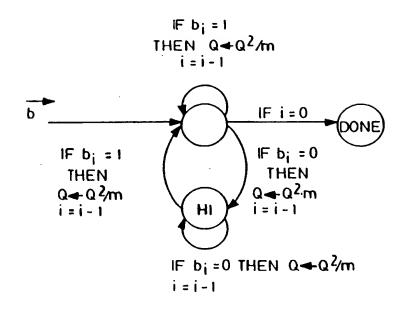


FIG. 7

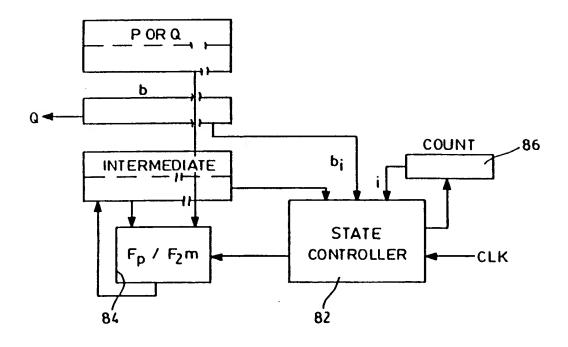


FIG. 8